

IOWA
MILES OF RURAL SECONDARY ROADS
AS OF
JANUARY 1, 2003

INTRODUCTION

The Office of Transportation Data, in cooperation with the Federal Highway Administration, prepares this secondary road report. The report is used by federal, state, and local agencies and the general public for statistical information on the secondary road system.

Information for this report is derived from data reported by Iowa County Engineers. Their reports of construction which may change the road surface, length, and functional classification are reflected in this report.

The report is in four major sections, State Totals in Miles by Type of Surface, Statistical Summary, County Totals in Miles by Type of Surface and Condition of the Rural Secondary System. All data is current as of January 1, 2003.

This report is available at <http://www.iowadotmaps.com/secmiles>

TABLE OF CONTENTS

Five Year Summary of the Secondary Road System in Iowa	1
Statistical Summary	2
Grading and Surfacing Work Accomplished on the Farm-to-Market System	3
Grading and Surfacing Work Accomplished on the Area Service Secondary System	8
Miles of all Open Rural Secondary Roads in Iowa Classified by System	13
Miles of Rural Primary Roads and Secondary Roads in Iowa Classified by System	18
Miles of Rural Primary and Secondary Roads in Iowa (showing Surfaced and Not Surfaced)	23
Miles of Rural Secondary Roads for All Systems (Area Service and Farm-to-Market) Classified by Surface Type	28
Miles of Rural Secondary Roads on the Farm-to-Market System Classified by Surface Type	33
Miles of Rural Secondary Roads on the Area Service System (Non Farm-to-Market) Classified by Surface Type	38
Percent Surfaced for All Systems on the Secondary Road System	43
Percent Surfaced for the Farm-to-Market System on the Secondary Road System	48
Percent Surfaced for the Area Service System (Non Farm-to-Market) on the Secondary Road System	53

**FIVE YEAR SUMMARY OF THE SECONDARY ROAD SYSTEM IN IOWA
(IN MILES)**

RURAL SECONDARY ROAD SYSTEM	EARTH ROAD					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
JANUARY 1, 2003											
Total Farm-to-Market	11.136	0.000	28.015	37.935	77.086	13,859.298	929.551	14,779.088	29,567.937	29,645.023	29,633.887
Total Non Farm-to-Market	531.865	254.586	4,414.097	11.644	5,212.192	53,080.660	504.116	1,196.169	54,780.945	59,993.137	59,461.272
Total For State	543.001	254.586	4,442.112	49.579	5,289.278	66,939.958	1,433.667	15,975.257	84,348.882	89,638.160	89,095.159
JANUARY 1, 2002											
Total Farm-to-Market	13.054	0.000	27.551	44.371	84.976	13,936.323	873.829	14,760.034	29,570.186	29,655.162	29,642.108
Total Non Farm-to-Market	526.118	258.884	4,414.733	12.141	5,211.876	53,155.726	484.145	1,169.041	54,808.912	60,020.788	59,494.670
Total For State	539.172	258.884	4,442.284	56.512	5,296.852	67,092.049	1,357.974	15,929.075	84,379.098	89,675.950	89,136.778
JANUARY 1, 2001											
Total Farm-to-Market	14.587	0.000	29.390	44.292	88.269	13,976.550	881.970	14,716.433	29,574.953	29,663.222	29,648.635
Total Non Farm-to-Market	523.845	258.257	4,436.382	13.823	5,232.307	53,192.196	473.890	1,136.541	54,802.627	60,034.934	59,511.089
Total For State	538.432	258.257	4,465.772	58.115	5,320.576	67,168.746	1,355.860	15,852.974	84,377.580	89,698.156	89,159.724
JANUARY 1, 2000											
Total Farm-to-Market	12.263	0.000	25.389	38.536	76.188	14,091.430	834.425	14,655.078	29,580.933	29,657.121	29,644.858
Total Non Farm-to-Market	516.215	255.310	4,426.285	12.065	5,209.875	53,307.153	438.152	1,106.717	54,852.022	60,061.897	59,545.682
Total For State	528.478	255.310	4,451.674	50.601	5,286.063	67,398.583	1,272.577	15,761.795	84,432.955	89,719.018	89,190.540
JANUARY 1, 1999											
Total Farm-to-Market	9.880	0.000	26.433	52.284	88.597	14,150.040	837.642	14,582.524	29,570.206	29,658.803	29,648.923
Total Non Farm-to-Market	501.682	258.550	4,449.739	14.435	5,224.406	53,365.214	420.093	1,096.000	54,881.307	60,105.713	59,604.031
Total For State	511.562	258.550	4,476.172	66.719	5,313.003	67,515.254	1,257.735	15,678.524	84,451.513	89,764.516	89,252.954

STATISTICAL SUMMARY

On January 1, 2003, the condition of the Secondary Road System was as follows:

	Farm-to-Market System	Area Service Secondary System
Miles of Unimproved Earth Roads	0.000	254.586
Graded and Drained Earth Roads	28.015	4,414.097
Soil Surfaced	37.935	11.644
Gravel or Stone Surfaced	13,859.298	53,080.660
Bituminous Surfaced, Not Paved	929.551	504.116
Paved	14,779.088	1,196.169
Total Miles of Open Road	29,633.887	59,461.272
Legal Roads Not Open to Traffic	11.136	531.865
Total Miles in System	29,645.023	59,993.137

Comparison of grading and surfacing of Farm-to-Market and Area Service Secondary Roads accomplished in the past five years is as follows:

Year	Miles Graded	Miles Loose Surfaced
Jan. 1, 1999	49.401	66.764
Jan. 1, 2000	68.952	84.276
Jan. 1, 2001	45.813	59.368
Jan.1, 2002	48.983	52.365
Jan. 1, 2003	34.186	45.801

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair							0.000
Adams					15.431		15.431
Allamakee					10.601		10.601
Appanoose							0.000
Audubon					6.681	0.778	7.459
Benton				0.994	9.243		10.237
Black Hawk							0.000
Boone	0.514		0.514			4.016	5.044
Bremer						0.254	0.254
Buchanan	4.226		3.762				7.988
Buena Vista					10.079		10.079
Butler					14.258		14.258
Calhoun							0.000
Carroll					14.090		14.090
Cass	0.970		0.970			6.445	8.385
Cedar							0.000
Cerro Gordo							0.000
Cherokee							0.000
Chickasaw					7.603	0.191	7.794
Clarke	1.188		1.188				2.376

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay					2.930		2.930
Clayton					28.747		28.747
Clinton					10.660		10.660
Crawford							0.000
Dallas							0.000
Davis			0.442				0.442
Decatur					11.317		11.317
Delaware	3.467		3.470				6.937
Des Moines							0.000
Dickinson							0.000
Dubuque				2.678	7.634	3.449	13.761
Emmet							0.000
Fayette					11.430		11.430
Floyd							0.000
Franklin							0.000
Fremont						1.161	1.161
Greene							0.000
Grundy					21.030		21.030
Guthrie							0.000
Hamilton					31.031		31.031

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock					11.044		11.044
Hardin							0.000
Harrison	0.550		0.550				1.100
Henry						2.635	2.635
Howard							0.000
Humboldt							0.000
Ida							0.000
Iowa						0.249	0.249
Jackson	3.577		3.577				7.154
Jasper						0.425	0.425
Jefferson				0.996			0.996
Johnson					3.936		3.936
Jones							0.000
Keokuk			1.020			6.020	7.040
Kossuth					12.873		12.873
Lee				0.416	7.740	0.205	8.361
Linn				21.199	16.343	2.441	39.983
Louisa						6.922	6.922
Lucas							0.000
Lyon					8.056		8.056

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison							0.000
Mahaska							0.000
Marion	0.167		0.167				0.334
Marshall	0.124		0.124		10.179	2.546	12.973
Mills				3.198			3.198
Mitchell					15.339		15.339
Monona					11.009	2.163	13.172
Monroe							0.000
Montgomery							0.000
Muscatine						2.321	2.321
O'Brien					22.682		22.682
Osceola					15.993		15.993
Page							0.000
Palo Alto							0.000
Plymouth						6.831	6.831
Pocahontas							0.000
Polk				10.621	10.059		20.680
Pottawattamie					7.840	0.329	8.169
Poweshiek	0.246		0.246	0.792	2.420		3.704
Ringgold							0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac							0.000
Scott					5.252		5.252
Shelby			2.939	8.020			10.959
Sioux					6.014		6.014
Story					6.028		6.028
Tama							0.000
Taylor							0.000
Union							0.000
Van Buren							0.000
Wapello					2.381		2.381
Warren	0.077		0.077			0.448	0.602
Washington							0.000
Wayne							0.000
Webster							0.000
Winnebago					4.748		4.748
Winneshiek							0.000
Woodbury							0.000
Worth							0.000
Wright							0.000
TOTAL	15.106	0.000	19.046	48.914	392.701	49.829	525.596

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair							0.000
Adams	0.331		0.331				0.662
Allamakee	1.293		1.293				2.586
Appanoose			0.935				0.935
Audubon	0.055		0.384				0.439
Benton							0.000
Black Hawk							0.000
Boone	3.003		3.003			0.832	6.838
Bremer					0.214		0.214
Buchanan	0.222		0.222				0.444
Buena Vista					0.864		0.864
Butler							0.000
Calhoun							0.000
Carroll					3.200		3.200
Cass							0.000
Cedar					0.499		0.499
Cerro Gordo					0.441	1.628	2.069
Cherokee							0.000
Chickasaw						1.276	1.276
Clarke							0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay							0.000
Clayton							0.000
Clinton					1.038		1.038
Crawford			0.138				0.138
Dallas							0.000
Davis							0.000
Decatur			0.198				0.198
Delaware					0.373		0.373
Des Moines			1.069		0.385		1.454
Dickinson	3.732		0.491				4.223
Dubuque				5.438	0.101	1.170	6.709
Emmet							0.000
Fayette	1.650		1.650				3.300
Floyd						0.468	0.468
Franklin							0.000
Fremont					0.149	0.395	0.544
Greene							0.000
Grundy						0.503	0.503
Guthrie	0.510		0.510			0.988	2.008
Hamilton					0.149		0.149

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock						0.493	0.493
Hardin							0.000
Harrison			4.612				4.612
Henry	0.151		0.151				0.302
Howard							0.000
Humboldt							0.000
Ida							0.000
Iowa							0.000
Jackson	0.677		0.677				1.354
Jasper							0.000
Jefferson				1.485			1.485
Johnson							0.000
Jones	0.321		0.321	0.830		0.175	1.647
Keokuk							0.000
Kossuth					2.493		2.493
Lee				0.453	0.198	0.289	0.940
Linn	1.908		1.908	26.877	0.243		30.936
Louisa							0.000
Lucas	0.747		1.867				2.614
Lyon							0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison							0.000
Mahaska					0.644		0.644
Marion			0.475	1.353		0.090	1.918
Marshall	0.982		1.009		1.042	0.248	3.281
Mills							0.000
Mitchell							0.000
Monona							0.000
Monroe							0.000
Montgomery							0.000
Muscatine							0.000
O'Brien							0.000
Osceola					4.378		4.378
Page			0.038				0.038
Palo Alto							0.000
Plymouth							0.000
Pocahontas							0.000
Polk				5.481	16.190	1.093	22.764
Pottawattamie							0.000
Poweshiek							0.000
Ringgold							0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac							0.000
Scott					2.648	0.412	3.060
Shelby							0.000
Sioux						3.511	3.511
Story	0.162		0.162				0.324
Tama							0.000
Taylor							0.000
Union							0.000
Van Buren							0.000
Wapello					2.359		2.359
Warren	0.148		2.123			0.617	2.888
Washington	3.188		3.188				6.376
Wayne							0.000
Webster					7.898		7.898
Winnebago							0.000
Winneshiek							0.000
Woodbury							0.000
Worth							0.000
Wright							0.000
TOTAL	19.080	0.000	26.755	41.917	45.506	14.188	147.446

MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA

CLASSIFIED BY SYSTEM

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	0.000	276.805	276.805	142.901	604.839	747.740
Adams	0.000	188.777	188.777	103.005	424.222	527.227
Allamakee	0.000	299.755	299.755	13.428	548.895	562.323
Appanoose	1.087	269.701	270.788	32.939	426.393	459.332
Audubon	0.000	272.351	272.351	45.772	440.910	486.682
Benton	3.449	353.706	357.155	90.769	759.549	850.318
Black Hawk	0.000	272.998	272.998	5.078	490.192	495.270
Boone	0.000	301.368	301.368	1.883	666.741	668.624
Bremer	0.000	191.390	191.390	4.232	516.064	520.296
Buchanan	0.464	330.457	330.921	24.773	573.165	597.938
Buena Vista	0.000	328.902	328.902	6.457	663.952	670.409
Butler	0.000	290.629	290.629	16.659	645.385	662.044
Calhoun	0.000	298.551	298.551	6.334	673.274	679.608
Carroll	0.000	350.581	350.581	14.956	620.897	635.853
Cass	0.000	257.316	257.316	140.019	501.350	641.369
Cedar	1.765	354.698	356.463	56.426	536.519	592.945
Cerro Gordo	0.000	317.793	317.793	7.605	615.815	623.420
Cherokee	0.000	303.977	303.977	23.226	666.812	690.038
Chickasaw	1.013	232.840	233.853	8.617	597.736	606.353
Clarke	0.000	246.574	246.574	69.745	341.544	411.289

MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA

CLASSIFIED BY SYSTEM

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	0.000	301.626	301.626	5.024	654.773	659.797
Clayton	0.000	402.348	402.348	24.557	635.173	659.730
Clinton	0.000	349.118	349.118	3.904	646.171	650.075
Crawford	3.583	374.907	378.490	199.452	637.891	837.343
Dallas	0.000	248.945	248.945	2.672	618.349	621.021
Davis	0.000	265.762	265.762	66.035	468.106	534.141
Decatur	0.000	304.015	304.015	81.251	369.021	450.272
Delaware	0.000	292.480	292.480	11.797	606.319	618.116
Des Moines	0.000	235.001	235.001	63.978	311.426	375.404
Dickinson	0.000	220.779	220.779	20.592	411.256	431.848
Dubuque	0.000	312.595	312.595	5.204	447.467	452.671
Emmet	0.000	178.302	178.302	4.885	460.839	465.724
Fayette	0.000	344.553	344.553	0.342	784.370	784.712
Floyd	0.000	247.140	247.140	2.022	627.810	629.832
Franklin	0.000	354.140	354.140	12.846	625.447	638.293
Fremont	0.000	252.959	252.959	131.142	362.288	493.430
Greene	0.000	315.494	315.494	4.917	636.361	641.278
Grundy	0.000	271.157	271.157	14.354	534.105	548.459
Guthrie	0.000	287.970	287.970	68.601	571.277	639.878
Hamilton	0.000	316.025	316.025	1.755	588.358	590.113

MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA

CLASSIFIED BY SYSTEM

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	0.000	313.331	313.331	6.556	692.236	698.792
Hardin	0.000	369.198	369.198	5.209	597.961	603.170
Harrison	0.218	346.420	346.638	140.721	593.552	734.273
Henry	0.000	269.690	269.690	67.745	399.261	467.006
Howard	0.000	242.394	242.394	1.730	509.162	510.892
Humboldt	0.000	200.261	200.261	0.659	512.462	513.121
Ida	0.000	224.298	224.298	50.222	450.454	500.676
Iowa	0.392	355.090	355.482	76.304	498.017	574.321
Jackson	1.417	326.278	327.695	37.447	461.321	498.768
Jasper	0.000	405.069	405.069	49.181	765.344	814.525
Jefferson	1.896	281.269	283.165	97.062	369.100	466.162
Johnson	0.000	306.495	306.495	42.848	553.469	596.317
Jones	1.660	311.479	313.139	27.090	500.310	527.400
Keokuk	0.000	318.419	318.419	100.031	502.536	602.567
Kossuth	0.000	475.661	475.661	36.379	1,142.402	1,178.781
Lee	0.000	276.375	276.375	12.209	410.682	422.891
Linn	0.000	334.242	334.242	18.169	787.498	805.667
Louisa	0.000	239.268	239.268	38.743	290.596	329.339
Lucas	0.000	211.438	211.438	88.714	325.347	414.061
Lyon	0.000	320.822	320.822	3.697	678.025	681.722

MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA

CLASSIFIED BY SYSTEM

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	0.000	321.785	321.785	45.904	535.063	580.967
Mahaska	0.000	298.030	298.030	35.812	622.448	658.260
Marion	0.000	302.456	302.456	44.881	507.725	552.606
Marshall	0.000	309.934	309.934	21.550	599.220	620.770
Mills	0.000	223.124	223.124	75.630	354.925	430.555
Mitchell	0.000	239.232	239.232	5.757	536.961	542.718
Monona	0.000	352.131	352.131	94.558	613.706	708.264
Monroe	0.000	275.683	275.683	43.839	278.350	322.189
Montgomery	0.000	224.022	224.022	108.465	385.753	494.218
Muscatine	0.361	217.872	218.233	17.608	368.363	385.971
O'Brien	0.000	312.497	312.497	57.907	640.590	698.497
Osceola	0.000	243.072	243.072	48.817	430.600	479.417
Page	0.000	320.620	320.620	157.954	436.700	594.654
Palo Alto	0.000	302.608	302.608	0.370	636.183	636.553
Plymouth	0.000	361.639	361.639	43.680	1,018.401	1,062.081
Pocahontas	0.000	299.492	299.492	17.816	680.294	698.110
Polk	0.000	321.864	321.864	1.740	420.040	421.780
Pottawattamie	0.000	542.233	542.233	86.209	793.550	879.759
Poweshiek	3.910	325.202	329.112	117.251	524.000	641.251
Ringgold	0.000	273.400	273.400	207.419	390.798	598.217

MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA

CLASSIFIED BY SYSTEM

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	0.000	327.987	327.987	23.220	667.978	691.198
Scott	0.870	203.575	204.445	11.653	327.299	338.952
Shelby	36.247	256.933	293.180	153.719	503.966	657.685
Sioux	0.951	423.910	424.861	48.452	881.297	929.749
Story	0.000	359.078	359.078	26.201	553.265	579.466
Tama	0.938	353.665	354.603	82.716	711.129	793.845
Taylor	4.716	320.227	324.943	157.160	418.049	575.209
Union	0.000	249.520	249.520	103.051	346.944	449.995
Van Buren	0.000	257.871	257.871	49.926	419.813	469.739
Wapello	0.000	274.054	274.054	36.769	380.941	417.710
Warren	0.000	311.231	311.231	75.486	483.727	559.213
Washington	0.000	351.264	351.264	89.577	453.109	542.686
Wayne	1.013	296.414	297.427	63.274	464.130	527.404
Webster	0.000	392.898	392.898	3.903	769.975	773.878
Winnebago	0.000	202.295	202.295	4.631	511.329	515.960
Winneshiek	0.000	345.676	345.676	4.119	693.193	697.312
Woodbury	0.000	367.430	367.430	68.107	888.124	956.231
Worth	0.000	235.482	235.482	2.201	448.844	451.045
Wright	0.000	229.549	229.549	2.125	733.367	735.492
TOTAL	65.950	29,567.937	29,633.887	4,680.327	54,780.945	59,461.272

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Adair	74.395	276.805	747.740	1,024.545	1,098.940
Adams	46.289	188.777	527.227	716.004	762.293
Allamakee	89.672	299.755	562.323	862.078	951.750
Appanoose	71.857	270.788	459.332	730.120	801.977
Audubon	43.140	272.351	486.682	759.033	802.173
Benton	133.732	357.155	850.318	1,207.473	1,341.205
Black Hawk	93.993	272.998	495.270	768.268	862.261
Boone	87.583	301.368	668.624	969.992	1,057.575
Bremer	83.546	191.390	520.296	711.686	795.232
Buchanan	108.021	330.921	597.938	928.859	1,036.880
Buena Vista	90.503	328.902	670.409	999.311	1,089.814
Butler	73.360	290.629	662.044	952.673	1,026.033
Calhoun	79.541	298.551	679.608	978.159	1,057.700
Carroll	74.108	350.581	635.853	986.434	1,060.542
Cass	141.457	257.316	641.369	898.685	1,040.142
Cedar	88.147	356.463	592.945	949.408	1,037.555
Cerro Gordo	94.696	317.793	623.420	941.213	1,035.909
Cherokee	68.196	303.977	690.038	994.015	1,062.211
Chickasaw	66.468	233.853	606.353	840.206	906.674
Clarke	60.971	246.574	411.289	657.863	718.834

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Clay	58.672	301.626	659.797	961.423	1,020.095
Clayton	105.101	402.348	659.730	1,062.078	1,167.179
Clinton	107.278	349.118	650.075	999.193	1,106.471
Crawford	96.681	378.490	837.343	1,215.833	1,312.514
Dallas	118.821	248.945	621.021	869.966	988.787
Davis	57.489	265.762	534.141	799.903	857.392
Decatur	91.536	304.015	450.272	754.287	845.823
Delaware	93.463	292.480	618.116	910.596	1,004.059
Des Moines	57.196	235.001	375.404	610.405	667.601
Dickinson	49.432	220.779	431.848	652.627	702.059
Dubuque	112.902	312.595	452.671	765.266	878.168
Emmet	53.009	178.302	465.724	644.026	697.035
Fayette	125.752	344.553	784.712	1,129.265	1,255.017
Floyd	65.049	247.140	629.832	876.972	942.021
Franklin	78.682	354.140	638.293	992.433	1,071.115
Fremont	121.676	252.959	493.430	746.389	868.065
Greene	76.084	315.494	641.278	956.772	1,032.856
Grundy	81.424	271.157	548.459	819.616	901.040
Guthrie	95.862	287.970	639.878	927.848	1,023.710
Hamilton	149.712	316.025	590.113	906.138	1,055.850

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Hancock	56.781	313.331	698.792	1,012.123	1,068.904
Hardin	92.066	369.198	603.170	972.368	1,064.434
Harrison	124.452	346.638	734.273	1,080.911	1,205.363
Henry	69.642	269.690	467.006	736.696	806.338
Howard	42.701	242.394	510.892	753.286	795.987
Humboldt	38.912	200.261	513.121	713.382	752.294
Ida	60.237	224.298	500.676	724.974	785.211
Iowa	104.464	355.482	574.321	929.803	1,034.267
Jackson	112.855	327.695	498.768	826.463	939.318
Jasper	130.320	405.069	814.525	1,219.594	1,349.914
Jefferson	41.911	283.165	466.162	749.327	791.238
Johnson	123.622	306.495	596.317	902.812	1,026.434
Jones	100.473	313.139	527.400	840.539	941.012
Keokuk	114.237	318.419	602.567	920.986	1,035.223
Kossuth	109.584	475.661	1,178.781	1,654.442	1,764.026
Lee	122.118	276.375	422.891	699.266	821.384
Linn	105.147	334.242	805.667	1,139.909	1,245.056
Louisa	58.928	239.268	329.339	568.607	627.535
Lucas	62.183	211.438	414.061	625.499	687.682
Lyon	69.206	320.822	681.722	1,002.544	1,071.750

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Madison	52.601	321.785	580.967	902.752	955.353
Mahaska	94.031	298.030	658.260	956.290	1,050.321
Marion	95.562	302.456	552.606	855.062	950.624
Marshall	84.308	309.934	620.770	930.704	1,015.012
Mills	102.833	223.124	430.555	653.679	756.512
Mitchell	50.690	239.232	542.718	781.950	832.640
Monona	108.527	352.131	708.264	1,060.395	1,168.922
Monroe	53.754	275.683	322.189	597.872	651.626
Montgomery	62.734	224.022	494.218	718.240	780.974
Muscatine	91.122	218.233	385.971	604.204	695.326
O'Brien	77.105	312.497	698.497	1,010.994	1,088.099
Osceola	58.888	243.072	479.417	722.489	781.377
Page	66.587	320.620	594.654	915.274	981.861
Palo Alto	51.181	302.608	636.553	939.161	990.342
Plymouth	110.882	361.639	1,062.081	1,423.720	1,534.602
Pocahontas	90.471	299.492	698.110	997.602	1,088.073
Polk	141.290	321.864	421.780	743.644	884.934
Pottawattamie	251.236	542.233	879.759	1,421.992	1,673.228
Poweshiek	124.275	329.112	641.251	970.363	1,094.638
Ringgold	71.064	273.400	598.217	871.617	942.681

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Sac	88.186	327.987	691.198	1,019.185	1,107.371
Scott	72.124	204.445	338.952	543.397	615.521
Shelby	76.727	293.180	657.685	950.865	1,027.592
Sioux	106.442	424.861	929.749	1,354.610	1,461.052
Story	118.425	359.078	579.466	938.544	1,056.969
Tama	87.551	354.603	793.845	1,148.448	1,235.999
Taylor	68.967	324.943	575.209	900.152	969.119
Union	53.733	249.520	449.995	699.515	753.248
Van Buren	72.100	257.871	469.739	727.610	799.710
Wapello	55.510	274.054	417.710	691.764	747.274
Warren	125.648	311.231	559.213	870.444	996.092
Washington	115.484	351.264	542.686	893.950	1,009.434
Wayne	58.683	297.427	527.404	824.831	883.514
Webster	100.820	392.898	773.878	1,166.776	1,267.596
Winnebago	40.273	202.295	515.960	718.255	758.528
Winneshiek	93.150	345.676	697.312	1,042.988	1,136.138
Woodbury	138.178	367.430	956.231	1,323.661	1,461.839
Worth	57.869	235.482	451.045	686.527	744.396
Wright	72.143	229.549	735.492	965.041	1,037.184
TOTAL	8,646.489	29,633.887	59,461.272	89,095.159	97,741.648

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	142.901	881.644	1,024.545	74.395	142.901	956.039	1,098.940
Adams	103.005	612.999	716.004	46.289	103.005	659.288	762.293
Allamakee	13.428	848.650	862.078	89.672	13.428	938.322	951.750
Appanoose	34.026	696.094	730.120	71.857	34.026	767.951	801.977
Audubon	45.772	713.261	759.033	43.140	45.772	756.401	802.173
Benton	94.218	1,113.255	1,207.473	133.227	94.218	1,246.482	1,340.700
Black Hawk	5.078	763.190	768.268	93.993	5.078	857.183	862.261
Boone	1.883	968.109	969.992	87.459	1.883	1,055.568	1,057.451
Bremer	4.232	707.454	711.686	86.847	4.232	794.301	798.533
Buchanan	25.237	903.622	928.859	107.524	25.237	1,011.146	1,036.383
Buena Vista	6.457	992.854	999.311	90.503	6.457	1,083.357	1,089.814
Butler	16.659	936.014	952.673	73.360	16.659	1,009.374	1,026.033
Calhoun	6.334	971.825	978.159	79.541	6.334	1,051.366	1,057.700
Carroll	14.956	971.478	986.434	74.108	14.956	1,045.586	1,060.542
Cass	140.019	758.666	898.685	141.457	140.019	900.123	1,040.142
Cedar	58.191	891.217	949.408	87.426	58.191	978.643	1,036.834
Cerro Gordo	7.605	933.608	941.213	94.696	7.605	1,028.304	1,035.909
Cherokee	23.226	970.789	994.015	67.910	23.226	1,038.699	1,061.925
Chickasaw	9.630	830.576	840.206	73.351	9.630	903.927	913.557
Clarke	69.745	588.118	657.863	60.971	69.745	649.089	718.834

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	5.024	956.399	961.423	58.672	5.024	1,015.071	1,020.095
Clayton	24.557	1,037.521	1,062.078	105.101	24.557	1,142.622	1,167.179
Clinton	3.904	995.289	999.193	107.278	3.904	1,102.567	1,106.471
Crawford	203.035	1,012.798	1,215.833	96.681	203.035	1,109.479	1,312.514
Dallas	2.672	867.294	869.966	116.500	2.672	983.794	986.466
Davis	66.035	733.868	799.903	57.489	66.035	791.357	857.392
Decatur	81.251	673.036	754.287	91.006	81.251	764.042	845.293
Delaware	11.797	898.799	910.596	93.277	11.797	992.076	1,003.873
Des Moines	63.978	546.427	610.405	57.196	63.978	603.623	667.601
Dickinson	20.592	632.035	652.627	49.432	20.592	681.467	702.059
Dubuque	5.204	760.062	765.266	117.111	5.204	877.173	882.377
Emmet	4.885	639.141	644.026	53.009	4.885	692.150	697.035
Fayette	0.342	1,128.923	1,129.265	125.752	0.342	1,254.675	1,255.017
Floyd	2.022	874.950	876.972	65.049	2.022	939.999	942.021
Franklin	12.846	979.587	992.433	78.682	12.846	1,058.269	1,071.115
Fremont	131.142	615.247	746.389	121.676	131.142	736.923	868.065
Greene	4.917	951.855	956.772	76.084	4.917	1,027.939	1,032.856
Grundy	14.354	805.262	819.616	81.424	14.354	886.686	901.040
Guthrie	68.601	859.247	927.848	95.862	68.601	955.109	1,023.710
Hamilton	1.755	904.383	906.138	148.850	1.755	1,053.233	1,054.988

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	6.556	1,005.567	1,012.123	56.781	6.556	1,062.348	1,068.904
Hardin	5.209	967.159	972.368	92.066	5.209	1,059.225	1,064.434
Harrison	140.939	939.972	1,080.911	124.452	140.939	1,064.424	1,205.363
Henry	67.745	668.951	736.696	70.664	67.745	739.615	807.360
Howard	1.730	751.556	753.286	42.701	1.730	794.257	795.987
Humboldt	0.659	712.723	713.382	38.912	0.659	751.635	752.294
Ida	50.222	674.752	724.974	60.237	50.222	734.989	785.211
Iowa	76.696	853.107	929.803	104.464	76.696	957.571	1,034.267
Jackson	38.864	787.599	826.463	112.855	38.864	900.454	939.318
Jasper	49.181	1,170.413	1,219.594	130.132	49.181	1,300.545	1,349.726
Jefferson	98.958	650.369	749.327	41.911	98.958	692.280	791.238
Johnson	42.848	859.964	902.812	119.148	42.848	979.112	1,021.960
Jones	28.750	811.789	840.539	99.762	28.750	911.551	940.301
Keokuk	100.031	820.955	920.986	114.237	100.031	935.192	1,035.223
Kossuth	36.379	1,618.063	1,654.442	109.584	36.379	1,727.647	1,764.026
Lee	12.209	687.057	699.266	119.861	12.209	806.918	819.127
Linn	18.169	1,121.740	1,139.909	104.609	18.169	1,226.349	1,244.518
Louisa	38.743	529.864	568.607	58.928	38.743	588.792	627.535
Lucas	88.714	536.785	625.499	62.183	88.714	598.968	687.682
Lyon	3.697	998.847	1,002.544	69.206	3.697	1,068.053	1,071.750

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	45.904	856.848	902.752	52.601	45.904	909.449	955.353
Mahaska	35.812	920.478	956.290	94.031	35.812	1,014.509	1,050.321
Marion	44.881	810.181	855.062	95.877	44.881	906.058	950.939
Marshall	21.550	909.154	930.704	84.329	21.550	993.483	1,015.033
Mills	75.630	578.049	653.679	102.833	75.630	680.882	756.512
Mitchell	5.757	776.193	781.950	50.690	5.757	826.883	832.640
Monona	94.558	965.837	1,060.395	108.527	94.558	1,074.364	1,168.922
Monroe	43.839	554.033	597.872	53.754	43.839	607.787	651.626
Montgomery	108.465	609.775	718.240	62.734	108.465	672.509	780.974
Muscatine	17.969	586.235	604.204	97.518	17.969	683.753	701.722
O'Brien	57.907	953.087	1,010.994	77.105	57.907	1,030.192	1,088.099
Osceola	48.817	673.672	722.489	57.297	48.817	730.969	779.786
Page	157.954	757.320	915.274	66.587	157.954	823.907	981.861
Palo Alto	0.370	938.791	939.161	51.181	0.370	989.972	990.342
Plymouth	43.680	1,380.040	1,423.720	110.882	43.680	1,490.922	1,534.602
Pocahontas	17.816	979.786	997.602	90.471	17.816	1,070.257	1,088.073
Polk	1.740	741.904	743.644	134.301	1.740	876.205	877.945
Pottawattamie	86.209	1,335.783	1,421.992	251.236	86.209	1,587.019	1,673.228
Poweshiek	121.161	849.202	970.363	124.275	121.161	973.477	1,094.638
Ringgold	207.419	664.198	871.617	71.064	207.419	735.262	942.681

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	23.220	995.965	1,019.185	88.186	23.220	1,084.151	1,107.371
Scott	12.523	530.874	543.397	66.654	12.523	597.528	610.051
Shelby	189.966	760.899	950.865	76.727	189.966	837.626	1,027.592
Sioux	49.403	1,305.207	1,354.610	106.442	49.403	1,411.649	1,461.052
Story	26.201	912.343	938.544	118.448	26.201	1,030.791	1,056.992
Tama	83.654	1,064.794	1,148.448	87.551	83.654	1,152.345	1,235.999
Taylor	161.876	738.276	900.152	68.967	161.876	807.243	969.119
Union	103.051	596.464	699.515	53.733	103.051	650.197	753.248
Van Buren	49.926	677.684	727.610	72.100	49.926	749.784	799.710
Wapello	36.769	654.995	691.764	54.542	36.769	709.537	746.306
Warren	75.486	794.958	870.444	118.818	75.486	913.776	989.262
Washington	89.577	804.373	893.950	115.484	89.577	919.857	1,009.434
Wayne	64.287	760.544	824.831	58.683	64.287	819.227	883.514
Webster	3.903	1,162.873	1,166.776	100.820	3.903	1,263.693	1,267.596
Winnebago	4.631	713.624	718.255	40.273	4.631	753.897	758.528
Winneshiek	4.119	1,038.869	1,042.988	93.150	4.119	1,132.019	1,136.138
Woodbury	68.107	1,255.554	1,323.661	138.059	68.107	1,393.613	1,461.720
Worth	2.201	684.326	686.527	57.869	2.201	742.195	744.396
Wright	2.125	962.916	965.041	72.143	2.125	1,035.059	1,037.184
TOTAL	4,746.277	84,348.882	89,095.159	8,632.492	4,746.277	92,981.374	97,727.651

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	2.245	1.541	141.360	0.000	145.146	795.399	8.129	78.116	881.644	1,026.790	1,024.545
Adams	0.921	0.000	103.005	0.000	103.926	515.717	0.112	97.170	612.999	716.925	716.004
Allamakee	12.649	11.191	2.237	0.000	26.077	700.326	1.155	147.169	848.650	874.727	862.078
Appanoose	11.873	0.222	33.804	0.000	45.899	606.207	1.324	88.563	696.094	741.993	730.120
Audubon	1.811	1.082	44.690	0.000	47.583	622.411	4.113	86.737	713.261	760.844	759.033
Benton	3.682	0.000	94.218	0.000	97.900	924.782	7.124	181.349	1,113.255	1,211.155	1,207.473
Black Hawk	1.206	0.721	4.357	0.000	6.284	526.408	26.078	210.704	763.190	769.474	768.268
Boone	4.569	0.000	0.870	1.013	6.452	781.953	2.409	183.747	968.109	974.561	969.992
Bremer	0.746	2.343	1.889	0.000	4.978	572.394	1.580	133.480	707.454	712.432	711.686
Buchanan	0.933	1.022	24.215	0.000	26.170	742.173	1.168	160.281	903.622	929.792	928.859
Buena Vista	3.981	3.707	2.750	0.000	10.438	747.476	4.371	241.007	992.854	1,003.292	999.311
Butler	5.638	0.000	16.659	0.000	22.297	736.350	0.497	199.167	936.014	958.311	952.673
Calhoun	0.000	1.501	4.833	0.000	6.334	810.960	2.328	158.537	971.825	978.159	978.159
Carroll	2.958	2.399	12.557	0.000	17.914	799.960	0.466	171.052	971.478	989.392	986.434
Cass	1.533	1.373	138.646	0.000	141.552	653.216	8.120	97.330	758.666	900.218	898.685
Cedar	3.754	2.076	56.115	0.000	61.945	754.387	3.270	133.560	891.217	953.162	949.408
Cerro Gordo	3.345	3.229	4.376	0.000	10.950	696.781	3.133	233.694	933.608	944.558	941.213
Cherokee	5.849	1.412	21.814	0.000	29.075	769.150	0.000	201.639	970.789	999.864	994.015
Chickasaw	2.018	4.701	4.929	0.000	11.648	691.719	0.559	138.298	830.576	842.224	840.206
Clarke	3.473	0.062	69.683	0.000	73.218	533.866	5.034	49.218	588.118	661.336	657.863

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay	0.000	2.604	2.420	0.000	5.024	740.313	0.000	216.086	956.399	961.423	961.423
Clayton	13.155	9.902	14.655	0.000	37.712	851.955	7.768	177.798	1,037.521	1,075.233	1,062.078
Clinton	7.150	0.566	3.338	0.000	11.054	786.761	2.012	206.516	995.289	1,006.343	999.193
Crawford	7.976	2.151	198.245	2.639	211.011	878.292	1.010	133.496	1,012.798	1,223.809	1,215.833
Dallas	10.182	0.000	2.672	0.000	12.854	688.901	3.324	175.069	867.294	880.148	869.966
Davis	4.089	1.100	64.935	0.000	70.124	654.703	0.410	78.755	733.868	803.992	799.903
Decatur	13.484	0.118	81.133	0.000	94.735	519.612	54.799	98.625	673.036	767.771	754.287
Delaware	3.891	4.265	7.532	0.000	15.688	677.882	0.582	220.335	898.799	914.487	910.596
Des Moines	3.209	4.573	59.405	0.000	67.187	451.824	0.031	94.572	546.427	613.614	610.405
Dickinson	5.593	17.559	3.033	0.000	26.185	454.077	9.114	168.844	632.035	658.220	652.627
Dubuque	9.970	2.986	2.218	0.000	15.174	353.537	182.669	223.856	760.062	775.236	765.266
Emmet	0.864	3.033	1.852	0.000	5.749	458.876	0.000	180.265	639.141	644.890	644.026
Fayette	4.569	0.311	0.031	0.000	4.911	909.360	2.269	217.294	1,128.923	1,133.834	1,129.265
Floyd	2.267	1.001	1.021	0.000	4.289	712.685	4.245	158.020	874.950	879.239	876.972
Franklin	3.244	3.108	9.738	0.000	16.090	784.189	0.000	195.398	979.587	995.677	992.433
Fremont	3.523	1.896	129.246	0.000	134.665	446.595	107.374	61.278	615.247	749.912	746.389
Greene	4.663	1.750	3.167	0.000	9.580	744.801	0.000	207.054	951.855	961.435	956.772
Grundy	0.292	9.262	5.092	0.000	14.646	631.975	1.516	171.771	805.262	819.908	819.616
Guthrie	8.890	1.362	67.239	0.000	77.491	735.474	0.889	122.884	859.247	936.738	927.848
Hamilton	0.745	0.329	1.426	0.000	2.500	717.826	0.000	186.557	904.383	906.883	906.138

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	6.836	5.095	1.461	0.000	13.392	757.182	1.178	247.207	1,005.567	1,018.959	1,012.123
Hardin	2.356	0.590	4.619	0.000	7.565	786.863	3.903	176.393	967.159	974.724	972.368
Harrison	17.251	3.785	137.154	0.000	158.190	792.933	59.564	87.475	939.972	1,098.162	1,080.911
Henry	3.586	0.000	67.745	0.000	71.331	550.794	0.982	117.175	668.951	740.282	736.696
Howard	3.671	0.000	1.730	0.000	5.401	639.828	2.386	109.342	751.556	756.957	753.286
Humboldt	0.777	0.149	0.510	0.000	1.436	519.593	0.249	192.881	712.723	714.159	713.382
Ida	8.969	2.523	47.699	0.000	59.191	550.287	0.000	124.465	674.752	733.943	724.974
Iowa	9.000	1.347	75.349	0.000	85.696	703.216	3.680	146.211	853.107	938.803	929.803
Jackson	6.242	2.884	35.980	0.000	45.106	620.520	5.196	161.883	787.599	832.705	826.463
Jasper	7.111	1.243	47.938	0.000	56.292	964.460	17.710	188.243	1,170.413	1,226.705	1,219.594
Jefferson	0.000	0.267	98.691	0.000	98.958	512.719	11.489	126.161	650.369	749.327	749.327
Johnson	1.907	3.233	39.615	0.000	44.755	592.827	122.151	144.986	859.964	904.719	902.812
Jones	4.134	1.522	27.228	0.000	32.884	657.744	2.512	151.533	811.789	844.673	840.539
Keokuk	6.208	3.753	96.278	0.000	106.239	732.102	0.578	88.275	820.955	927.194	920.986
Kossuth	1.482	19.141	17.238	0.000	37.861	1,117.732	0.162	500.169	1,618.063	1,655.924	1,654.442
Lee	1.989	3.978	8.231	0.000	14.198	531.894	26.050	129.113	687.057	701.255	699.266
Linn	13.035	0.225	17.944	0.000	31.204	768.139	106.840	246.761	1,121.740	1,152.944	1,139.909
Louisa	2.331	0.622	38.121	0.000	41.074	412.665	5.855	111.344	529.864	570.938	568.607
Lucas	4.034	0.000	88.714	0.000	92.748	488.266	0.000	48.519	536.785	629.533	625.499
Lyon	1.654	2.349	1.348	0.000	5.351	754.974	0.491	243.382	998.847	1,004.198	1,002.544

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison	7.952	7.564	38.340	0.000	53.856	749.593	3.574	103.681	856.848	910.704	902.752
Mahaska	12.402	5.086	30.726	0.000	48.214	815.193	0.000	105.285	920.478	968.692	956.290
Marion	6.457	0.845	43.949	0.087	51.338	660.301	33.053	116.827	810.181	861.519	855.062
Marshall	5.118	0.677	20.873	0.000	26.668	715.530	1.557	192.067	909.154	935.822	930.704
Mills	0.450	0.938	74.692	0.000	76.080	446.020	75.768	56.261	578.049	654.129	653.679
Mitchell	1.584	0.958	4.799	0.000	7.341	592.433	3.187	180.573	776.193	783.534	781.950
Monona	7.852	11.182	83.376	0.000	102.410	780.183	1.857	183.797	965.837	1,068.247	1,060.395
Monroe	22.458	0.320	43.519	0.000	66.297	496.275	4.027	53.731	554.033	620.330	597.872
Montgomery	0.577	0.342	108.123	0.000	109.042	503.679	1.706	104.390	609.775	718.817	718.240
Muscatine	2.279	2.861	15.108	0.000	20.248	414.197	43.008	129.030	586.235	606.483	604.204
O'Brien	6.234	0.136	57.771	0.000	64.141	736.766	0.000	216.321	953.087	1,017.228	1,010.994
Osceola	0.298	0.994	47.823	0.000	49.115	478.101	0.000	195.571	673.672	722.787	722.489
Page	3.822	2.517	155.437	0.000	161.776	550.628	108.578	98.114	757.320	919.096	915.274
Palo Alto	3.429	0.249	0.121	0.000	3.799	769.840	0.590	168.361	938.791	942.590	939.161
Plymouth	3.039	4.521	39.159	0.000	46.719	1,021.293	0.848	357.899	1,380.040	1,426.759	1,423.720
Pocahontas	0.293	3.523	14.293	0.000	18.109	794.698	0.000	185.088	979.786	997.895	997.602
Polk	8.481	0.715	1.025	0.000	10.221	229.023	90.468	422.413	741.904	752.125	743.644
Pottawattamie	16.646	0.864	85.345	0.000	102.855	1,143.861	35.407	156.515	1,335.783	1,438.638	1,421.992
Poweshiek	5.887	2.623	118.538	0.000	127.048	739.605	10.698	98.899	849.202	976.250	970.363
Ringgold	19.935	9.546	197.873	0.000	227.354	524.697	68.109	71.392	664.198	891.552	871.617

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719	0.000	24.880	800.192	0.983	194.790	995.965	1,020.845	1,019.185
Scott	1.528	5.954	6.569	0.000	14.051	354.572	3.286	173.016	530.874	544.925	543.397
Shelby	14.689	0.000	144.126	45.840	204.655	627.404	20.453	113.042	760.899	965.554	950.865
Sioux	11.394	4.759	44.644	0.000	60.797	1,035.179	0.093	269.935	1,305.207	1,366.004	1,354.610
Story	0.180	0.659	25.542	0.000	26.381	707.036	9.050	196.257	912.343	938.724	938.544
Tama	8.076	2.772	80.882	0.000	91.730	896.639	0.957	167.198	1,064.794	1,156.524	1,148.448
Taylor	5.850	5.407	156.469	0.000	167.726	645.163	8.745	84.368	738.276	906.002	900.152
Union	2.610	4.226	98.825	0.000	105.661	500.339	27.814	68.311	596.464	702.125	699.515
Van Buren	12.891	1.517	48.409	0.000	62.817	587.814	3.258	86.612	677.684	740.501	727.610
Wapello	8.569	0.000	36.769	0.000	45.338	524.247	7.505	123.243	654.995	700.333	691.764
Warren	1.643	0.000	75.486	0.000	77.129	651.071	3.004	140.883	794.958	872.087	870.444
Washington	13.771	2.432	87.145	0.000	103.348	671.703	7.146	125.524	804.373	907.721	893.950
Wayne	5.491	0.373	63.914	0.000	69.778	658.798	0.000	101.746	760.544	830.322	824.831
Webster	3.276	0.000	3.903	0.000	7.179	872.080	8.139	282.654	1,162.873	1,170.052	1,166.776
Winnebago	2.037	4.631	0.000	0.000	6.668	568.343	0.162	145.119	713.624	720.292	718.255
Winneshek	9.515	1.421	2.698	0.000	13.634	818.312	16.963	203.594	1,038.869	1,052.503	1,042.988
Woodbury	13.720	2.084	66.023	0.000	81.827	952.209	0.064	303.281	1,255.554	1,337.381	1,323.661
Worth	6.792	0.709	1.492	0.000	8.993	475.498	3.170	205.658	684.326	693.319	686.527
Wright	0.603	1.516	0.609	0.000	2.728	795.432	0.482	167.002	962.916	965.644	965.041
TOTAL	543.001	254.586	4,442.112	49.579	5,289.278	66,939.958	1,433.667	15,975.257	84,348.882	89,638.160	89,095.159

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	0.180				0.180	194.977	4.004	77.824	276.805	276.985	276.805
Adams					0.000	96.272		92.505	188.777	188.777	188.777
Allamakee					0.000	156.712	0.118	142.925	299.755	299.755	299.755
Appanoose			1.087		1.087	190.253	0.249	79.199	269.701	270.788	270.788
Audubon					0.000	185.251	1.755	85.345	272.351	272.351	272.351
Benton	0.500		3.449		3.949	173.867	4.738	175.101	353.706	357.655	357.155
Black Hawk	0.031				0.031	59.045	10.901	203.052	272.998	273.029	272.998
Boone					0.000	126.336	1.143	173.889	301.368	301.368	301.368
Bremer					0.000	63.229		128.161	191.390	191.390	191.390
Buchanan			0.464		0.464	176.198	0.876	153.383	330.457	330.921	330.921
Buena Vista					0.000	92.626	2.860	233.416	328.902	328.902	328.902
Butler					0.000	97.170		193.459	290.629	290.629	290.629
Calhoun					0.000	142.860	0.249	155.442	298.551	298.551	298.551
Carroll	0.485				0.485	187.696	0.398	162.487	350.581	351.066	350.581
Cass					0.000	159.934	4.027	93.355	257.316	257.316	257.316
Cedar			1.765		1.765	232.385	0.379	121.934	354.698	356.463	356.463
Cerro Gordo	0.697				0.697	104.349		213.444	317.793	318.490	317.793
Cherokee	1.585				1.585	108.779		195.198	303.977	305.562	303.977
Chickasaw			1.013		1.013	98.965		133.875	232.840	233.853	233.853
Clarke					0.000	192.950	4.406	49.218	246.574	246.574	246.574

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay					0.000	96.748		204.878	301.626	301.626	301.626
Clayton					0.000	231.103	1.934	169.311	402.348	402.348	402.348
Clinton					0.000	169.023	0.236	179.859	349.118	349.118	349.118
Crawford			1.457	2.126	3.583	244.648	0.131	130.128	374.907	378.490	378.490
Dallas					0.000	86.795	0.497	161.653	248.945	248.945	248.945
Davis					0.000	191.445	0.410	73.907	265.762	265.762	265.762
Decatur					0.000	171.200	40.487	92.328	304.015	304.015	304.015
Delaware					0.000	91.032		201.448	292.480	292.480	292.480
Des Moines	0.301				0.301	156.456		78.545	235.001	235.302	235.001
Dickinson					0.000	87.249	1.972	131.558	220.779	220.779	220.779
Dubuque					0.000	46.249	83.540	182.806	312.595	312.595	312.595
Emmet					0.000	11.033		167.269	178.302	178.302	178.302
Fayette					0.000	130.649	0.131	213.773	344.553	344.553	344.553
Floyd					0.000	108.938	1.784	136.418	247.140	247.140	247.140
Franklin					0.000	166.183		187.957	354.140	354.140	354.140
Fremont					0.000	95.954	103.944	53.061	252.959	252.959	252.959
Greene					0.000	109.353		206.141	315.494	315.494	315.494
Grundy					0.000	99.563	1.162	170.432	271.157	271.157	271.157
Guthrie	0.211				0.211	173.325	0.143	114.502	287.970	288.181	287.970
Hamilton					0.000	130.371		185.654	316.025	316.025	316.025

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	0.529				0.529	75.813	0.329	237.189	313.331	313.860	313.331
Hardin					0.000	194.687	1.752	172.759	369.198	369.198	369.198
Harrison			0.218		0.218	206.374	52.624	87.422	346.420	346.638	346.638
Henry	0.619				0.619	160.826	0.261	108.603	269.690	270.309	269.690
Howard					0.000	133.167	1.389	107.838	242.394	242.394	242.394
Humboldt					0.000	20.529		179.732	200.261	200.261	200.261
Ida					0.000	105.182		119.116	224.298	224.298	224.298
Iowa			0.392		0.392	217.952	3.136	134.002	355.090	355.482	355.482
Jackson	0.249		1.417		1.666	175.717	1.274	149.287	326.278	327.944	327.695
Jasper					0.000	225.796	2.803	176.470	405.069	405.069	405.069
Jefferson			1.896		1.896	159.249	8.711	113.309	281.269	283.165	283.165
Johnson					0.000	78.146	91.956	136.393	306.495	306.495	306.495
Jones			1.660		1.660	168.436	0.480	142.563	311.479	313.139	313.139
Keokuk	1.521				1.521	230.672		87.747	318.419	319.940	318.419
Kossuth					0.000	67.628		408.033	475.661	475.661	475.661
Lee					0.000	148.552	13.039	114.784	276.375	276.375	276.375
Linn	1.000				1.000	74.264	60.875	199.103	334.242	335.242	334.242
Louisa					0.000	131.081		108.187	239.268	239.268	239.268
Lucas					0.000	163.221		48.217	211.438	211.438	211.438
Lyon					0.000	89.106	0.491	231.225	320.822	320.822	320.822

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison					0.000	214.598	3.574	103.613	321.785	321.785	321.785
Mahaska	0.045				0.045	203.380		94.650	298.030	298.075	298.030
Marion	0.068				0.068	192.662	9.305	100.489	302.456	302.524	302.456
Marshall	0.012				0.012	129.468	0.249	180.217	309.934	309.946	309.934
Mills					0.000	98.143	72.963	52.018	223.124	223.124	223.124
Mitchell					0.000	64.393		174.839	239.232	239.232	239.232
Monona					0.000	168.810	0.820	182.501	352.131	352.131	352.131
Monroe						228.492	3.667	43.524	275.683	275.683	275.683
Montgomery					0.000	121.081	1.575	101.366	224.022	224.022	224.022
Muscatine	1.210		0.361		1.571	79.954	22.546	115.372	217.872	219.443	218.233
O'Brien					0.000	100.099		212.398	312.497	312.497	312.497
Osceola					0.000	58.512		184.560	243.072	243.072	243.072
Page					0.000	120.548	105.111	94.961	320.620	320.620	320.620
Palo Alto					0.000	142.700	0.037	159.871	302.608	302.608	302.608
Plymouth					0.000	21.527		340.112	361.639	361.639	361.639
Pocahontas					0.000	122.241		177.251	299.492	299.492	299.492
Polk					0.000	38.098	35.984	247.782	321.864	321.864	321.864
Pottawattamie	1.001				1.001	384.131	16.258	141.844	542.233	543.234	542.233
Poweshiek			3.910		3.910	223.080	5.360	96.762	325.202	329.112	329.112
Ringgold					0.000	148.543	53.465	71.392	273.400	273.400	273.400

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac					0.000	135.510	0.522	191.955	327.987	327.987	327.987
Scott			0.870		0.870	69.127	0.939	133.509	203.575	204.445	204.445
Shelby			0.438	35.809	36.247	124.807	20.453	111.673	256.933	293.180	293.180
Sioux			0.951		0.951	164.686		259.224	423.910	424.861	424.861
Story					0.000	171.234	6.973	180.871	359.078	359.078	359.078
Tama			0.938		0.938	193.298	0.249	160.118	353.665	354.603	354.603
Taylor	0.050		4.716		4.766	230.475	8.254	81.498	320.227	324.993	324.943
Union					0.000	167.290	22.320	59.910	249.520	249.520	249.520
Van Buren	0.315				0.315	173.223	2.915	81.733	257.871	258.186	257.871
Wapello					0.000	154.195	6.828	113.031	274.054	274.054	274.054
Warren					0.000	185.609	1.418	124.204	311.231	311.231	311.231
Washington					0.000	223.251	6.266	121.747	351.264	351.264	351.264
Wayne			1.013		1.013	203.478		92.936	296.414	297.427	297.427
Webster					0.000	130.046		262.852	392.898	392.898	392.898
Winnebago	0.527				0.527	59.217		143.078	202.295	202.822	202.295
Winneshiek					0.000	139.694	9.906	196.076	345.676	345.676	345.676
Woodbury					0.000	84.292		283.138	367.430	367.430	367.430
Worth					0.000	60.890		174.592	235.482	235.482	235.482
Wright					0.000	64.947		164.602	229.549	229.549	229.549
TOTAL	11.136	0.000	28.015	37.935	77.086	13,859.298	929.551	14,779.088	29,567.937	29,645.023	29,633.887

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	2.065	1.541	141.360		144.966	600.422	4.125	0.292	604.839	749.805	747.740
Adams	0.921		103.005		103.926	419.445	0.112	4.665	424.222	528.148	527.227
Allamakee	12.649	11.191	2.237		26.077	543.614	1.037	4.244	548.895	574.972	562.323
Appanoose	11.873	0.222	32.717		44.812	415.954	1.075	9.364	426.393	471.205	459.332
Audubon	1.811	1.082	44.690		47.583	437.160	2.358	1.392	440.910	488.493	486.682
Benton	3.182		90.769		93.951	750.915	2.386	6.248	759.549	853.500	850.318
Black Hawk	1.175	0.721	4.357		6.253	467.363	15.177	7.652	490.192	496.445	495.270
Boone	4.569		0.870	1.013	6.452	655.617	1.266	9.858	666.741	673.193	668.624
Bremer	0.746	2.343	1.889		4.978	509.165	1.580	5.319	516.064	521.042	520.296
Buchanan	0.933	1.022	23.751		25.706	565.975	0.292	6.898	573.165	598.871	597.938
Buena Vista	3.981	3.707	2.750		10.438	654.850	1.511	7.591	663.952	674.390	670.409
Butler	5.638		16.659		22.297	639.180	0.497	5.708	645.385	667.682	662.044
Calhoun		1.501	4.833		6.334	668.100	2.079	3.095	673.274	679.608	679.608
Carroll	2.473	2.399	12.557		17.429	612.264	0.068	8.565	620.897	638.326	635.853
Cass	1.533	1.373	138.646		141.552	493.282	4.093	3.975	501.350	642.902	641.369
Cedar	3.754	2.076	54.350		60.180	522.002	2.891	11.626	536.519	596.699	592.945
Cerro Gordo	2.648	3.229	4.376		10.253	592.432	3.133	20.250	615.815	626.068	623.420
Cherokee	4.264	1.412	21.814		27.490	660.371		6.441	666.812	694.302	690.038
Chickasaw	2.018	4.701	3.916		10.635	592.754	0.559	4.423	597.736	608.371	606.353
Clarke	3.473	0.062	69.683		73.218	340.916	0.628		341.544	414.762	411.289

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay		2.604	2.420		5.024	643.565		11.208	654.773	659.797	659.797
Clayton	13.155	9.902	14.655		37.712	620.852	5.834	8.487	635.173	672.885	659.730
Clinton	7.150	0.566	3.338		11.054	617.738	1.776	26.657	646.171	657.225	650.075
Crawford	7.976	2.151	196.788	0.513	207.428	633.644	0.879	3.368	637.891	845.319	837.343
Dallas	10.182		2.672		12.854	602.106	2.827	13.416	618.349	631.203	621.021
Davis	4.089	1.100	64.935		70.124	463.258		4.848	468.106	538.230	534.141
Decatur	13.484	0.118	81.133		94.735	348.412	14.312	6.297	369.021	463.756	450.272
Delaware	3.891	4.265	7.532		15.688	586.850	0.582	18.887	606.319	622.007	618.116
Des Moines	2.908	4.573	59.405		66.886	295.368	0.031	16.027	311.426	378.312	375.404
Dickinson	5.593	17.559	3.033		26.185	366.828	7.142	37.286	411.256	437.441	431.848
Dubuque	9.970	2.986	2.218		15.174	307.288	99.129	41.050	447.467	462.641	452.671
Emmet	0.864	3.033	1.852		5.749	447.843		12.996	460.839	466.588	465.724
Fayette	4.569	0.311	0.031		4.911	778.711	2.138	3.521	784.370	789.281	784.712
Floyd	2.267	1.001	1.021		4.289	603.747	2.461	21.602	627.810	632.099	629.832
Franklin	3.244	3.108	9.738		16.090	618.006		7.441	625.447	641.537	638.293
Fremont	3.523	1.896	129.246		134.665	350.641	3.430	8.217	362.288	496.953	493.430
Greene	4.663	1.750	3.167		9.580	635.448		0.913	636.361	645.941	641.278
Grundy	0.292	9.262	5.092		14.646	532.412	0.354	1.339	534.105	548.751	548.459
Guthrie	8.679	1.362	67.239		77.280	562.149	0.746	8.382	571.277	648.557	639.878
Hamilton	0.745	0.329	1.426		2.500	587.455		0.903	588.358	590.858	590.113

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	6.307	5.095	1.461		12.863	681.369	0.849	10.018	692.236	705.099	698.792
Hardin	2.356	0.590	4.619		7.565	592.176	2.151	3.634	597.961	605.526	603.170
Harrison	17.251	3.785	136.936		157.972	586.559	6.940	0.053	593.552	751.524	734.273
Henry	2.967		67.745		70.712	389.968	0.721	8.572	399.261	469.973	467.006
Howard	3.671		1.730		5.401	506.661	0.997	1.504	509.162	514.563	510.892
Humboldt	0.777	0.149	0.510		1.436	499.064	0.249	13.149	512.462	513.898	513.121
Ida	8.969	2.523	47.699		59.191	445.105		5.349	450.454	509.645	500.676
Iowa	9.000	1.347	74.957		85.304	485.264	0.544	12.209	498.017	583.321	574.321
Jackson	5.993	2.884	34.563		43.440	444.803	3.922	12.596	461.321	504.761	498.768
Jasper	7.111	1.243	47.938		56.292	738.664	14.907	11.773	765.344	821.636	814.525
Jefferson		0.267	96.795		97.062	353.470	2.778	12.852	369.100	466.162	466.162
Johnson	1.907	3.233	39.615		44.755	514.681	30.195	8.593	553.469	598.224	596.317
Jones	4.134	1.522	25.568		31.224	489.308	2.032	8.970	500.310	531.534	527.400
Keokuk	4.687	3.753	96.278		104.718	501.430	0.578	0.528	502.536	607.254	602.567
Kossuth	1.482	19.141	17.238		37.861	1,050.104	0.162	92.136	1,142.402	1,180.263	1,178.781
Lee	1.989	3.978	8.231		14.198	383.342	13.011	14.329	410.682	424.880	422.891
Linn	12.035	0.225	17.944		30.204	693.875	45.965	47.658	787.498	817.702	805.667
Louisa	2.331	0.622	38.121		41.074	281.584	5.855	3.157	290.596	331.670	329.339
Lucas	4.034		88.714		92.748	325.045		0.302	325.347	418.095	414.061
Lyon	1.654	2.349	1.348		5.351	665.868		12.157	678.025	683.376	681.722

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison	7.952	7.564	38.340		53.856	534.995		0.068	535.063	588.919	580.967
Mahaska	12.357	5.086	30.726		48.169	611.813		10.635	622.448	670.617	658.260
Marion	6.389	0.845	43.949	0.087	51.270	467.639	23.748	16.338	507.725	558.995	552.606
Marshall	5.106	0.677	20.873		26.656	586.062	1.308	11.850	599.220	625.876	620.770
Mills	0.450	0.938	74.692		76.080	347.877	2.805	4.243	354.925	431.005	430.555
Mitchell	1.584	0.958	4.799		7.341	528.040	3.187	5.734	536.961	544.302	542.718
Monona	7.852	11.182	83.376		102.410	611.373	1.037	1.296	613.706	716.116	708.264
Monroe	22.458	0.320	43.519		66.297	267.783	0.360	10.207	278.350	344.647	322.189
Montgomery	0.577	0.342	108.123		109.042	382.598	0.131	3.024	385.753	494.795	494.218
Muscatine	1.069	2.861	14.747		18.677	334.243	20.462	13.658	368.363	387.040	385.971
O'Brien	6.234	0.136	57.771		64.141	636.667		3.923	640.590	704.731	698.497
Osceola	0.298	0.994	47.823		49.115	419.589		11.011	430.600	479.715	479.417
Page	3.822	2.517	155.437		161.776	430.080	3.467	3.153	436.700	598.476	594.654
Palo Alto	3.429	0.249	0.121		3.799	627.140	0.553	8.490	636.183	639.982	636.553
Plymouth	3.039	4.521	39.159		46.719	999.766	0.848	17.787	1,018.401	1,065.120	1,062.081
Pocahontas	0.293	3.523	14.293		18.109	672.457		7.837	680.294	698.403	698.110
Polk	8.481	0.715	1.025		10.221	190.925	54.484	174.631	420.040	430.261	421.780
Pottawattamie	15.645	0.864	85.345		101.854	759.730	19.149	14.671	793.550	895.404	879.759
Poweshiek	5.887	2.623	114.628		123.138	516.525	5.338	2.137	524.000	647.138	641.251
Ringgold	19.935	9.546	197.873		227.354	376.154	14.644		390.798	618.152	598.217

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719		24.880	664.682	0.461	2.835	667.978	692.858	691.198
Scott	1.528	5.954	5.699		13.181	285.445	2.347	39.507	327.299	340.480	338.952
Shelby	14.689		143.688	10.031	168.408	502.597		1.369	503.966	672.374	657.685
Sioux	11.394	4.759	43.693		59.846	870.493	0.093	10.711	881.297	941.143	929.749
Story	0.180	0.659	25.542		26.381	535.802	2.077	15.386	553.265	579.646	579.466
Tama	8.076	2.772	79.944		90.792	703.341	0.708	7.080	711.129	801.921	793.845
Taylor	5.800	5.407	151.753		162.960	414.688	0.491	2.870	418.049	581.009	575.209
Union	2.610	4.226	98.825		105.661	333.049	5.494	8.401	346.944	452.605	449.995
Van Buren	12.576	1.517	48.409		62.502	414.591	0.343	4.879	419.813	482.315	469.739
Wapello	8.569		36.769		45.338	370.052	0.677	10.212	380.941	426.279	417.710
Warren	1.643		75.486		77.129	465.462	1.586	16.679	483.727	560.856	559.213
Washington	13.771	2.432	87.145		103.348	448.452	0.880	3.777	453.109	556.457	542.686
Wayne	5.491	0.373	62.901		68.765	455.320		8.810	464.130	532.895	527.404
Webster	3.276		3.903		7.179	742.034	8.139	19.802	769.975	777.154	773.878
Winnebago	1.510	4.631			6.141	509.126	0.162	2.041	511.329	517.470	515.960
Winneshiek	9.515	1.421	2.698		13.634	678.618	7.057	7.518	693.193	706.827	697.312
Woodbury	13.720	2.084	66.023		81.827	867.917	0.064	20.143	888.124	969.951	956.231
Worth	6.792	0.709	1.492		8.993	414.608	3.170	31.066	448.844	457.837	451.045
Wright	0.603	1.516	0.609		2.728	730.485	0.482	2.400	733.367	736.095	735.492
TOTAL	531.865	254.586	4,414.097	11.644	5,212.192	53,080.660	504.116	1,196.169	54,780.945	59,993.137	59,461.272

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	1,026.790	881.644	145.146	85.86
Adams	716.925	612.999	103.926	85.50
Allamakee	874.727	848.650	26.077	97.02
Appanoose	741.993	696.094	45.899	93.81
Audubon	760.844	713.261	47.583	93.75
Benton	1,211.155	1,113.255	97.900	91.92
Black Hawk	769.474	763.190	6.284	99.18
Boone	974.561	968.109	6.452	99.34
Bremer	712.432	707.454	4.978	99.30
Buchanan	929.792	903.622	26.170	97.19
Buena Vista	1,003.292	992.854	10.438	98.96
Butler	958.311	936.014	22.297	97.67
Calhoun	978.159	971.825	6.334	99.35
Carroll	989.392	971.478	17.914	98.19
Cass	900.218	758.666	141.552	84.28
Cedar	953.162	891.217	61.945	93.50
Cerro Gordo	944.558	933.608	10.950	98.84
Cherokee	999.864	970.789	29.075	97.09
Chickasaw	842.224	830.576	11.648	98.62
Clarke	661.336	588.118	73.218	88.93

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	961.423	956.399	5.024	99.48
Clayton	1,075.233	1,037.521	37.712	96.49
Clinton	1,006.343	995.289	11.054	98.90
Crawford	1,223.809	1,012.798	211.011	82.76
Dallas	880.148	867.294	12.854	98.54
Davis	803.992	733.868	70.124	91.28
Decatur	767.771	673.036	94.735	87.66
Delaware	914.487	898.799	15.688	98.28
Des Moines	613.614	546.427	67.187	89.05
Dickinson	658.220	632.035	26.185	96.02
Dubuque	775.236	760.062	15.174	98.04
Emmet	644.890	639.141	5.749	99.11
Fayette	1,133.834	1,128.923	4.911	99.57
Floyd	879.239	874.950	4.289	99.51
Franklin	995.677	979.587	16.090	98.38
Fremont	749.912	615.247	134.665	82.04
Greene	961.435	951.855	9.580	99.00
Grundy	819.908	805.262	14.646	98.21
Guthrie	936.738	859.247	77.491	91.73
Hamilton	906.883	904.383	2.500	99.72

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	1,018.959	1,005.567	13.392	98.69
Hardin	974.724	967.159	7.565	99.22
Harrison	1,098.162	939.972	158.190	85.60
Henry	740.282	668.951	71.331	90.36
Howard	756.957	751.556	5.401	99.29
Humboldt	714.159	712.723	1.436	99.80
Ida	733.943	674.752	59.191	91.94
Iowa	938.803	853.107	85.696	90.87
Jackson	832.705	787.599	45.106	94.58
Jasper	1,226.705	1,170.413	56.292	95.41
Jefferson	749.327	650.369	98.958	86.79
Johnson	904.719	859.964	44.755	95.05
Jones	844.673	811.789	32.884	96.11
Keokuk	927.194	820.955	106.239	88.54
Kossuth	1,655.924	1,618.063	37.861	97.71
Lee	701.255	687.057	14.198	97.98
Linn	1,152.944	1,121.740	31.204	97.29
Louisa	570.938	529.864	41.074	92.81
Lucas	629.533	536.785	92.748	85.27
Lyon	1,004.198	998.847	5.351	99.47

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	910.704	856.848	53.856	94.09
Mahaska	968.692	920.478	48.214	95.02
Marion	861.519	810.181	51.338	94.04
Marshall	935.822	909.154	26.668	97.15
Mills	654.129	578.049	76.080	88.37
Mitchell	783.534	776.193	7.341	99.06
Monona	1,068.247	965.837	102.410	90.41
Monroe	620.330	554.033	66.297	89.31
Montgomery	718.817	609.775	109.042	84.83
Muscatine	606.483	586.235	20.248	96.66
O'Brien	1,017.228	953.087	64.141	93.69
Osceola	722.787	673.672	49.115	93.20
Page	919.096	757.320	161.776	82.40
Palo Alto	942.590	938.791	3.799	99.60
Plymouth	1,426.759	1,380.040	46.719	96.73
Pocahontas	997.895	979.786	18.109	98.19
Polk	752.125	741.904	10.221	98.64
Pottawattamie	1,438.638	1,335.783	102.855	92.85
Poweshiek	976.250	849.202	127.048	86.99
Ringgold	891.552	664.198	227.354	74.50

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	1,020.845	995.965	24.880	97.56
Scott	544.925	530.874	14.051	97.42
Shelby	965.554	760.899	204.655	78.80
Sioux	1,366.004	1,305.207	60.797	95.55
Story	938.724	912.343	26.381	97.19
Tama	1,156.524	1,064.794	91.730	92.07
Taylor	906.002	738.276	167.726	81.49
Union	702.125	596.464	105.661	84.95
Van Buren	740.501	677.684	62.817	91.52
Wapello	700.333	654.995	45.338	93.53
Warren	872.087	794.958	77.129	91.16
Washington	907.721	804.373	103.348	88.61
Wayne	830.322	760.544	69.778	91.60
Webster	1,170.052	1,162.873	7.179	99.39
Winnebago	720.292	713.624	6.668	99.07
Winneshiek	1,052.503	1,038.869	13.634	98.70
Woodbury	1,337.381	1,255.554	81.827	93.88
Worth	693.319	684.326	8.993	98.70
Wright	965.644	962.916	2.728	99.72
TOTAL	89,638.160	84,348.882	5,289.278	94.10

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	276.985	276.805	0.180	99.94
Adams	188.777	188.777	0.000	100.00
Allamakee	299.755	299.755	0.000	100.00
Appanoose	270.788	269.701	1.087	99.60
Audubon	272.351	272.351	0.000	100.00
Benton	357.655	353.706	3.949	98.90
Black Hawk	273.029	272.998	0.031	99.99
Boone	301.368	301.368	0.000	100.00
Bremer	191.390	191.390	0.000	100.00
Buchanan	330.921	330.457	0.464	99.86
Buena Vista	328.902	328.902	0.000	100.00
Butler	290.629	290.629	0.000	100.00
Calhoun	298.551	298.551	0.000	100.00
Carroll	351.066	350.581	0.485	99.86
Cass	257.316	257.316	0.000	100.00
Cedar	356.463	354.698	1.765	99.50
Cerro Gordo	318.490	317.793	0.697	99.78
Cherokee	305.562	303.977	1.585	99.48
Chickasaw	233.853	232.840	1.013	99.57
Clarke	246.574	246.574	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	301.626	301.626	0.000	100.00
Clayton	402.348	402.348	0.000	100.00
Clinton	349.118	349.118	0.000	100.00
Crawford	378.490	374.907	3.583	99.05
Dallas	248.945	248.945	0.000	100.00
Davis	265.762	265.762	0.000	100.00
Decatur	304.015	304.015	0.000	100.00
Delaware	292.480	292.480	0.000	100.00
Des Moines	235.302	235.001	0.301	99.87
Dickinson	220.779	220.779	0.000	100.00
Dubuque	312.595	312.595	0.000	100.00
Emmet	178.302	178.302	0.000	100.00
Fayette	344.553	344.553	0.000	100.00
Floyd	247.140	247.140	0.000	100.00
Franklin	354.140	354.140	0.000	100.00
Fremont	252.959	252.959	0.000	100.00
Greene	315.494	315.494	0.000	100.00
Grundy	271.157	271.157	0.000	100.00
Guthrie	288.181	287.970	0.211	99.93
Hamilton	316.025	316.025	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	313.860	313.331	0.529	99.83
Hardin	369.198	369.198	0.000	100.00
Harrison	346.638	346.420	0.218	99.94
Henry	270.309	269.690	0.619	99.77
Howard	242.394	242.394	0.000	100.00
Humboldt	200.261	200.261	0.000	100.00
Ida	224.298	224.298	0.000	100.00
Iowa	355.482	355.090	0.392	99.89
Jackson	327.944	326.278	1.666	99.49
Jasper	405.069	405.069	0.000	100.00
Jefferson	283.165	281.269	1.896	99.33
Johnson	306.495	306.495	0.000	100.00
Jones	313.139	311.479	1.660	99.47
Keokuk	319.940	318.419	1.521	99.52
Kossuth	475.661	475.661	0.000	100.00
Lee	276.375	276.375	0.000	100.00
Linn	335.242	334.242	1.000	99.70
Louisa	239.268	239.268	0.000	100.00
Lucas	211.438	211.438	0.000	100.00
Lyon	320.822	320.822	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	321.785	321.785	0.000	100.00
Mahaska	298.075	298.030	0.045	99.98
Marion	302.524	302.456	0.068	99.98
Marshall	309.946	309.934	0.012	100.00
Mills	223.124	223.124	0.000	100.00
Mitchell	239.232	239.232	0.000	100.00
Monona	352.131	352.131	0.000	100.00
Monroe	275.683	275.683	0.000	100.00
Montgomery	224.022	224.022	0.000	100.00
Muscatine	219.443	217.872	1.571	99.28
O'Brien	312.497	312.497	0.000	100.00
Osceola	243.072	243.072	0.000	100.00
Page	320.620	320.620	0.000	100.00
Palo Alto	302.608	302.608	0.000	100.00
Plymouth	361.639	361.639	0.000	100.00
Pocahontas	299.492	299.492	0.000	100.00
Polk	321.864	321.864	0.000	100.00
Pottawattamie	543.234	542.233	1.001	99.82
Poweshiek	329.112	325.202	3.910	98.81
Ringgold	273.400	273.400	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	327.987	327.987	0.000	100.00
Scott	204.445	203.575	0.870	99.57
Shelby	293.180	256.933	36.247	87.64
Sioux	424.861	423.910	0.951	99.78
Story	359.078	359.078	0.000	100.00
Tama	354.603	353.665	0.938	99.74
Taylor	324.993	320.227	4.766	98.53
Union	249.520	249.520	0.000	100.00
Van Buren	258.186	257.871	0.315	99.88
Wapello	274.054	274.054	0.000	100.00
Warren	311.231	311.231	0.000	100.00
Washington	351.264	351.264	0.000	100.00
Wayne	297.427	296.414	1.013	99.66
Webster	392.898	392.898	0.000	100.00
Winnebago	202.822	202.295	0.527	99.74
Winneshiek	345.676	345.676	0.000	100.00
Woodbury	367.430	367.430	0.000	100.00
Worth	235.482	235.482	0.000	100.00
Wright	229.549	229.549	0.000	100.00
TOTAL	29,645.023	29,567.937	77.086	99.74

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	749.805	604.839	144.966	80.67
Adams	528.148	424.222	103.926	80.32
Allamakee	574.972	548.895	26.077	95.46
Appanoose	471.205	426.393	44.812	90.49
Audubon	488.493	440.910	47.583	90.26
Benton	853.500	759.549	93.951	88.99
Black Hawk	496.445	490.192	6.253	98.74
Boone	673.193	666.741	6.452	99.04
Bremer	521.042	516.064	4.978	99.04
Buchanan	598.871	573.165	25.706	95.71
Buena Vista	674.390	663.952	10.438	98.45
Butler	667.682	645.385	22.297	96.66
Calhoun	679.608	673.274	6.334	99.07
Carroll	638.326	620.897	17.429	97.27
Cass	642.902	501.350	141.552	77.98
Cedar	596.699	536.519	60.180	89.91
Cerro Gordo	626.068	615.815	10.253	98.36
Cherokee	694.302	666.812	27.490	96.04
Chickasaw	608.371	597.736	10.635	98.25
Clarke	414.762	341.544	73.218	82.35

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	659.797	654.773	5.024	99.24
Clayton	672.885	635.173	37.712	94.40
Clinton	657.225	646.171	11.054	98.32
Crawford	845.319	637.891	207.428	75.46
Dallas	631.203	618.349	12.854	97.96
Davis	538.230	468.106	70.124	86.97
Decatur	463.756	369.021	94.735	79.57
Delaware	622.007	606.319	15.688	97.48
Des Moines	378.312	311.426	66.886	82.32
Dickinson	437.441	411.256	26.185	94.01
Dubuque	462.641	447.467	15.174	96.72
Emmet	466.588	460.839	5.749	98.77
Fayette	789.281	784.370	4.911	99.38
Floyd	632.099	627.810	4.289	99.32
Franklin	641.537	625.447	16.090	97.49
Fremont	496.953	362.288	134.665	72.90
Greene	645.941	636.361	9.580	98.52
Grundy	548.751	534.105	14.646	97.33
Guthrie	648.557	571.277	77.280	88.08
Hamilton	590.858	588.358	2.500	99.58

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	705.099	692.236	12.863	98.18
Hardin	605.526	597.961	7.565	98.75
Harrison	751.524	593.552	157.972	78.98
Henry	469.973	399.261	70.712	84.95
Howard	514.563	509.162	5.401	98.95
Humboldt	513.898	512.462	1.436	99.72
Ida	509.645	450.454	59.191	88.39
Iowa	583.321	498.017	85.304	85.38
Jackson	504.761	461.321	43.440	91.39
Jasper	821.636	765.344	56.292	93.15
Jefferson	466.162	369.100	97.062	79.18
Johnson	598.224	553.469	44.755	92.52
Jones	531.534	500.310	31.224	94.13
Keokuk	607.254	502.536	104.718	82.76
Kossuth	1,180.263	1,142.402	37.861	96.79
Lee	424.880	410.682	14.198	96.66
Linn	817.702	787.498	30.204	96.31
Louisa	331.670	290.596	41.074	87.62
Lucas	418.095	325.347	92.748	77.82
Lyon	683.376	678.025	5.351	99.22

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	588.919	535.063	53.856	90.86
Mahaska	670.617	622.448	48.169	92.82
Marion	558.995	507.725	51.270	90.83
Marshall	625.876	599.220	26.656	95.74
Mills	431.005	354.925	76.080	82.35
Mitchell	544.302	536.961	7.341	98.65
Monona	716.116	613.706	102.410	85.70
Monroe	344.647	278.350	66.297	80.76
Montgomery	494.795	385.753	109.042	77.96
Muscatine	387.040	368.363	18.677	95.17
O'Brien	704.731	640.590	64.141	90.90
Osceola	479.715	430.600	49.115	89.76
Page	598.476	436.700	161.776	72.97
Palo Alto	639.982	636.183	3.799	99.41
Plymouth	1,065.120	1,018.401	46.719	95.61
Pocahontas	698.403	680.294	18.109	97.41
Polk	430.261	420.040	10.221	97.62
Pottawattamie	895.404	793.550	101.854	88.62
Poweshiek	647.138	524.000	123.138	80.97
Ringgold	618.152	390.798	227.354	63.22

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	692.858	667.978	24.880	96.41
Scott	340.480	327.299	13.181	96.13
Shelby	672.374	503.966	168.408	74.95
Sioux	941.143	881.297	59.846	93.64
Story	579.646	553.265	26.381	95.45
Tama	801.921	711.129	90.792	88.68
Taylor	581.009	418.049	162.960	71.95
Union	452.605	346.944	105.661	76.65
Van Buren	482.315	419.813	62.502	87.04
Wapello	426.279	380.941	45.338	89.36
Warren	560.856	483.727	77.129	86.25
Washington	556.457	453.109	103.348	81.43
Wayne	532.895	464.130	68.765	87.10
Webster	777.154	769.975	7.179	99.08
Winnebago	517.470	511.329	6.141	98.81
Winneshiek	706.827	693.193	13.634	98.07
Woodbury	969.951	888.124	81.827	91.56
Worth	457.837	448.844	8.993	98.04
Wright	736.095	733.367	2.728	99.63
TOTAL	59,993.137	54,780.945	5,212.192	91.31